Project Name: Hardsetting Soils

Project Code: HS Site ID: CP288 Observation ID: 1

Agency Name: CSIRO Division of Soils (ACT)

Site Information

Desc. By: C.J. Chartres Locality: Southeast of 'The Rock'. On the Northern edge of the

'Bulloc Range'.

Date Desc.: 01/01/92 Elevation: No Data Sheet No.: 8327 1:100000 Map Ref.: Rainfall: No Data Northing/Long.: 6092400 AMG zone: 55 Runoff: No Data Easting/Lat.: 512800 Datum: AGD66 Drainage: No Data

Geology

ExposureType: Undisturbed soil core Conf. Sub. is Parent. Mat.: No Data Geol. Ref.: No Data Substrate Material: No Data

Land Form

Rel/Slope Class:No DataPattern Type:No DataMorph. Type:Upper-slopeRelief:No DataElem. Type:HillslopeSlope Category:No DataSlope:%Aspect:45 degrees

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification: Mapping Unit: N/A
N/A Principal Profile Form: N/A
ASC Confidence: Great Soil Group: N/A

Confidence level not specified

Site Disturbance:

Vegetation:

Surface Coarse Fragments:

Profile Morphology

A1 0 - 0.14 m Dark reddish brown (5YR3/4-Moist); ; Coarse sandy loam; Moderate grade of structure, <2 mm,

Granular; Very weak consistence; 2-10%, coarse fragments; Many

B21w 0.14 - 0.33 m Reddish brown (5YR4/4-Moist); ; Loamy coarse sand; Weak grade of structure, 10-20 mm,

Subangular blocky; Single grain grade of structure; Very weak consistence; 10-20%, coarse

fragments; Common

B22w 0.33 - 0.53 m Yellowish red (5YR4/6-Moist); ; Loamy coarse sand; Weak grade of structure, 10-20 mm,

Subangular blocky; Single grain grade of structure; Very weak consistence; 50-90%, coarse

fragments; Few

B23w 0.53 - 0.73 m Red (2.5YR4/6-Moist); ; Coarse sandy loam; Weak grade of structure, 10-20 mm, Subangular

blocky; Single grain grade of structure; Very weak consistence; 20-50%, coarse fragments; Few

R 0.73 - m Rock

Morphological Notes

B21w American system, horizon is Bw1.
B22w American system, horizon is Bw2.
B23w American system, horizon is Bw3.

R Sandstone.

Observation Notes

Soil Taxonomy: Dystric Xerochrept, coarse loamy.

Site Notes

Hardsetting Soils

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Laboratory Test Results:

Depth	рН	1:5 EC		hangeable	Cations K	Na	Exchangeable Acidity	CEC		ECEC		ESP
m		dS/m	Ca Mg		ĸ	Cmol (+)/kg						%
0 - 0.14 0.14 - 0.33 0.33 - 0.53 0.53 - 0.73 0.73 -	5.55A 5.36A 5.35A 5.58A	0.03A 0.02A 0.02A 0.02A	0.42E 0.24E 0.39E 0.49E	0.16 0.09 0.18 0.54	0.63 0.38 0.33 0.32	0 0.08 0.04 0						
Depth m	CaCO3	Organic C %	Avail. P mg/kg	Total P %	Total N %	Tota K %	Density	Pa GV	rticle CS	Size FS %	Analysi Silt	s Clay
0 - 0.14 0.14 - 0.33 0.33 - 0.53 0.53 - 0.73 0.73 -		0.83C 0.34C							45D 46D 41D 37D	39 37 39 38	7 7 7 8	8 8 12 16
Danth	COL F	Cravina stria Malumatria Water Contents						W+			V	.4

Depth COLE **Gravimetric/Volumetric Water Contents** K sat K unsat 0.05 Bar 0.1 Bar 0.5 Bar 1 Bar g/g - m3/m3 15 Bar Sat. 5 Bar m mm/h mm/h

0 - 0.14 0.14 - 0.33 0.33 - 0.53 0.53 - 0.73 0.73 - **Project Name: Hardsetting Soils**

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Laboratory Analyses Completed for this profile

13A1_AL Oxalate-extractable aluminium
13A1_FE Oxalate-extractable iron
13A1_MN Oxalate-extractable manganese
13A1_SI Oxalate-extractable silicon

15C1_CA Exchangeable bases (Ca2+,Mg2+,Na+,K+) - alcoholic 1M ammonium chloride at pH 8.5,

pretreatment for soluble salts

15C1_K Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble

salts

15C1_MG Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble

salts

15C1_NA Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble

salts

15I4 CEC measurement - titration of ammonium and chloride ions

3A1 EC of 1:5 soil/water extract 4A1 pH of 1:5 soil/water suspension

6B3 Total organic carbon - high frequency induction furnace, infrared

P10_PB_C
P10_PB_CS
Clay (%) - Plummet balance
Coarse sand (%) - Plummet balance
P10_PB_FS
P10_PB_Z
Clay (%) - Plummet balance
Silt (%) - Plummet balance
Silt (%) - Plummet balance